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Under the Par	perwork Reduction Act of 1995	, no persons	are required to respond to a co Application Number		formation unless it displays a valid OMB control number
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	ANSMITTAL	}.	Filing Date		ber 12, 2005
1 4 2006	FORM		First Named Inventor	Rumple	
			Art Unit	Not Yet	t Known
	all correspondence after initial	filing)	Examiner Name	Not Yet	t Known
THAP Number of	all correspondence after initial Pages in This Submission		Attorney Docket Number	SMB-P	T162 (PC 04 224 B US)
		ENCL	OSURES (Check all	that apply	1)
Fee Trans	smittal Form		rawing(s)		After Allowance Communication to To
☐ F€	ee Attached .		icensing-related Papers		Appeal Communication to Board of Appeals and Interferences
Amendme	ent/Reply		etition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
Af	ter Final		etition to Convert to a rovisional Application		Proprietary Information
		P	ower of Attorney, Revocation		Status Letter
	fidavits/declaration(s) of Time Request		hange of Correspondence A	Address	Other Enclosure(s) (please Identify below):
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Informatio	n Disclosure Statement	$\lceil \ \rceil$	Landscape Table on Cl		
	Copy of Priority	Remarks			
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	SIGNA	TURE O	F APPLICANT, ATTO	RNEY, C	OR AGENT
Firm Name	VOLPE AND KOEN	IG, P.C.			
Signature	PA				
Printed name	Randolph J. Huis				
Date	9/6/2	006	·	Reg. No.	34,626
		COTICIO	ATE OF TRANSMICS	LONI/MAI	II INC
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					the United States Postal Service with sufficient exandria, VA 22313-1450 on the date shown below
Signature	M5	4			
Typed or printed	name Randolph J.	Huis			Date 9/6/2006
					enefit by the public which is to file (and by the USPTO collection is estimated to 2 hours to complete, including

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Rumpler et al.

Application No.: 10/560,372

Filed:

December 12, 2005

For: METHOD FOR PRODUCTION OF ENZYME GRANULES AND ENZYME

GRANULES PRODUCED THUS

Group:

Not Yet Known

Examiner:

Not Yet Known

Our File: SMB-PT162

(PC 04 224 B US)

Date:

September 6, 2006

COMMUNICATION RE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed is the English language translation of the International Preliminary Report on Patentability related to the above-identified 35 U.S.C. §371 National Phase Application based on PCT/EP2004/005662.

Prompt examination of the present application is respectfully requested.

Respectfully submitted,

Weis et al.

Rv

Randolph J. Huis

Registration No. 34,626

(215) 568-6400

Volpe and Koenig, P.C. United Plaza, Suite 1600 30 South 17th Street Philadelphia, PA 19103 RJH/dmm

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PC 04 224 B	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/EP2004/005662	International filing date (day/month/year) 26 May 2004 (26.05.2004)	Priority date (day/month/year) 11 June 2003 (11.06.2003)	
International Patent Classification (81) See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant GLATT INGENIEURTECHNIK GM	ВН		

I,	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 his.1(a).				
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.				
	In the attached sheets, any refe to the international preliminary	rence to the written opinion of the International Scarching Authority should be read as a reference report on patentability (Chapter I) instead.			
3.	This report contains indication	s relating to the following items:			
	Box No. 1	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will on not, except where the applicant date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			
		Date of issuance of this report			

	Date of issuance of this report 01 May 2006 (01.05.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Agnes Wittmann-Regis
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 89 70

PATENT COOPERATION TREATY

From t	he INATIONAL SEARCH	ING AUTHOR	RITY			D.
To:					PCT	As lation
					RITTEN OPINION OF THE 'IONAL SEARCHING AUTH	
					(PCT Rule 43bis.1)	
		· · · · · · · · · · · · · · · · · · ·		Date of mailing (day/numb/year)		
Applie	uni's or agent's file refere	תכב		FOR FURTHER	ACTION	
PC	04 224 B				See paragraph 2 helow	
Interna	tional application No.		International filing date	(day/month/war)	Priority date (day/month/year)	
PCI	r/EP2004/005	662	26.05.2004		11.06.2003	
Interna	tional Patent Classification	on (IPC) or both	national classification an	d IPC		•
Applica	nel .					
GL		DTFCHN1	LK CMBH			
Gir	II INGENIEO	NIECHNI	er grisii			
1.	This opinion contains i	ndications rela	ting to the following items	i.		
	Box No. I	Basis of the	opínion			
	Box No. II	Priority				
	Box No. III	Non-establis	thment of opinion with reg	and to novelty, inventi	ve step and industrial applicability	
	Box No. IV	Lack of unit	y of invention			
	Box No. V		ntement under Rule 43bis.; citations and explanation		ovelty, inventive step or industrial ement	
	Box No. VI	Cartain docu	ments cited			
	Box No. VII	Censin defe	ers in the international app	lication		
	Box No. VIII	Certain obse	rvations on the internation	al application		
2.	FURTHER ACTION					
	International Preliminar than this one to be the	ry Examining A IPEA and the o	Authority ("IPEA") except	that this does not appl	be considered to be a written of y where the applicant chooses an A su under Rule 66.1bis(b) that written	Authority other
	written reply together,	where appropr	considered to be a wrinen riale, with amendments, I of 22 months from the pric	scrore the expiration	the applicant is invited to submit of 3 months from the date of max pires later.	to the IPEA willing of Form
	For further options, see	Form PCT/IS/	/220 .			
3.	For further details, see n	notes to Form P	CT/ISA/220.			
Name ar	nd mailing address of the	ISA/EP		Authorized officer		
Facsimil	e No			Telephone No.		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/005662

Bas	Bux No. I Basis of this opinion	
ı	With regard to the language, this opinion has been established on the basis of filed, unless otherwise indicated under this item.	of the international application in the language in which a was
	This opinion has been established on the basis of a translation from the which is the language of a translation.	original language into the following language ation furnished for the purposes of international search tunder
	Rule 12.3 and 23.1(b)).	
2.	2. With regard to any nucleotide and/or anthro acid sequence disclosed in invention, this opinion has been enablished on the basis of:	the international application and necessary to the claimed
	a. type of material	
	a sequence haing	
	(able(s) related to the sequence listing	
	h format of material	
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readah	ble form.
	furnished subsequently to this Authority for the purposes of search	v .
3.	3. In addition, in the case that more than one version or copy of a seque furnished, the required statements that the information in the subsequen filed or does not go beyond the application as filed, as appropriate, were	nt or additional copies is identical to that in the application as
4.	4. Additional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Imernational application No.
PCT/EP2004/005662

		-
Box No. I	lj Priority	
ı. 🛛	The following document has not yet been furnished:	
	copy of the entire application whose priority has been claimed (Rule 43bis.) and 66.7(a)).	
	translation of the earlier application whose priority has been claimed (Rule 43bis, 1 and 66,7(b)).	
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established the assumption that the relevant date in the claimed priority date.	ed on
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found in (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be relevant date.	valid e the
3 Add	litional observations, if necessary:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International	l application f	No.	
PCT/	EP2004	/00566	32

	ule 43bis.1(u)(i) with regord to novelty, inventive step or industrial applicab apporting such statement		Bas
		Statement	1
YES	1-35	Novelty (N)	
NO			
YES	1-35	Inventive step (1S)	
NO			
\TES	1-35	Industrial applicability (IA)	
NO NO			

2. Cuations and explanations:

Reference is made to the following documents:

- D1: DE 101 46 778 A (GLATT INGTECH GMBH) 24 April 2003 (2003-04-24)
- D2: DE 36 09 133 A (GLATT GMBH) 24 September 1987 (1987-09-24)
- D3: WO 01/37980 A (BAETTIG MARKUS J; GLATT PROCESS TECHNOLOGY GMBH (DE); TONDAR MATTHIAS) 31 May 2001 (2001-05-31)
- D4: EP-A-1 126 017 (GLATT INGTECH GMBH) 22 August 2001 (2001-08-22)
- D5: US-A-4 946 654 (STOPP GERHARD ET AL) 7 August 1990 (1990-08-07)

Novelty (PCT Article 33(2))

The production of enzyme-containing granules is known in the prior art. Two methods are principally used for this: enzyme preparations are extruded and then shaped to form granules; or the granules are formed in flat fluidized bed units in which a carrier gas flows through (for example) a grating in the bottom and/or are coated with an active substance.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/005662

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Box No. V

07:09

31-AUG-2006

Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

No prior art document discloses, however, a method as claimed, in particular characterized by the aspect that liquid enzyme preparations are sprayed via spray units chiefly into one solids-loaded gas jet.

Novelty over the prior art is thus recognized.

Inventive step (PCT Article 33(3))

Documents D1 to D4 are considered relevant documents of the prior art with respect to the subject matter of claim 1. They disclosed methods and fluidized-bed systems for producing compact solid particles. Pelleting and/or coating are achieved in the methods.

Dl to D4 are from the pharmaceutical and/or cleaning agent industries. They do not relate specifically to enzyme granules, but a person skilled in the art in the pharmaceutical, cleaning agent, feedstuff and/or food industries would also readily use enzyme-containing starting materials for producing granules, since the production and use of enzyme granules is part of the prior art.

The subject matter of claim 1 differs, however, from D1-D4 in that in the prior art the carrier gas is used in the "flat" fluidized bed and not, as in the present application, rather focused in one gas jet, into which the liquid enzyme formulations are principally sprayed.

Document D5 can, in addition, be considered relevant. It

S.08/09

International application No. PCT/EP2004/005662

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. V Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

describes a process and a plant for producing granules: a liquid starting material is sprayed by a gas in a nozzle and granulated in a fluidized bed (see claim 1 and fig. 9).

In contrast thereto, in the present application, the liquid enzyme formulation is sprayed into a solids-loaded gas stream.

No prior art document clearly indicates to a person skilled in the art a method as to how to arrive at the application claimed.

Therefore, an inventive step for independent process claim 1 is recognized.

It is assumed that a person skilled in the art is able to differentiate the enzyme granules which have been produced by the present claim 1 from those of the prior art (e.g. by make up and/or structure of the granules). Under this assumption, the inventive step of claims 17, 19 and 24 (product obtainable by the claimed process, or use of the product) is also recognized.

Dependent claims, which relate to novel and inventive claims are considered as novel and inventive.

Industrial applicability (PCT Article 33(4)) is recognized owing to the proposed forms of use (e.g. granules for feedstuffs, foods, laundry detergents).

S.09/09

From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF CUPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis 3(c) and 72.2)

`o:			

MAUCHER, Wolfgang Dreikönigstrasse 13 79102 Freiburg i. Br. ALLEMAGNE

Date of mailing (day/month/year) 11 May 2006 (11.05.2006)	
Applicant's or agent's file reference PC 04 224 B	IMPORTANT NOTIFICATION
International application No. PCT/EP2004/005662	International filing date (day/month/year) 26 May 2004 (26.05.2004)
Applicam	GLATT INGENIEURTECHNIK GMBH et al

•		
· 1.	Transmi	ttal of the translation to the applicant.
	V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
i		The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).
2.	Transmi	tta) of the copy of the translation to the designated or elected Offices.
		national Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected equiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be formished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Agnes Wittmann-Regis

Facsimile No.+41 22 338 89 70

Facsimile No.+41 22 740 14 35

GESAMT SEITEN 09